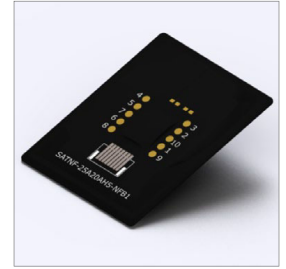


Features

- Complete w/ Connector & Flexible Flat Cable
- NFC Antenna (Near Field Communications)
- Stable And Reliable Performance
- 14.17MHz
- Halogen-Free
- RoHS compliance

Applications

- Hand Held Devices with NFC Or RFID Functions
- Data Transfer
- Machine-To-Machine Communication (Short Distance)



Part Numbering Guide

S AT NF 45A40A1E5 NF B3

SUNTSU

ANTENNA

NEAR FIELD

PACKAGE SIZE*

APPLICATION

FREQUENCY

45A40A1E5 = 45.0mm x 40.0mm x 1.45mm

NF = NFC

B3 = 14.17MHz

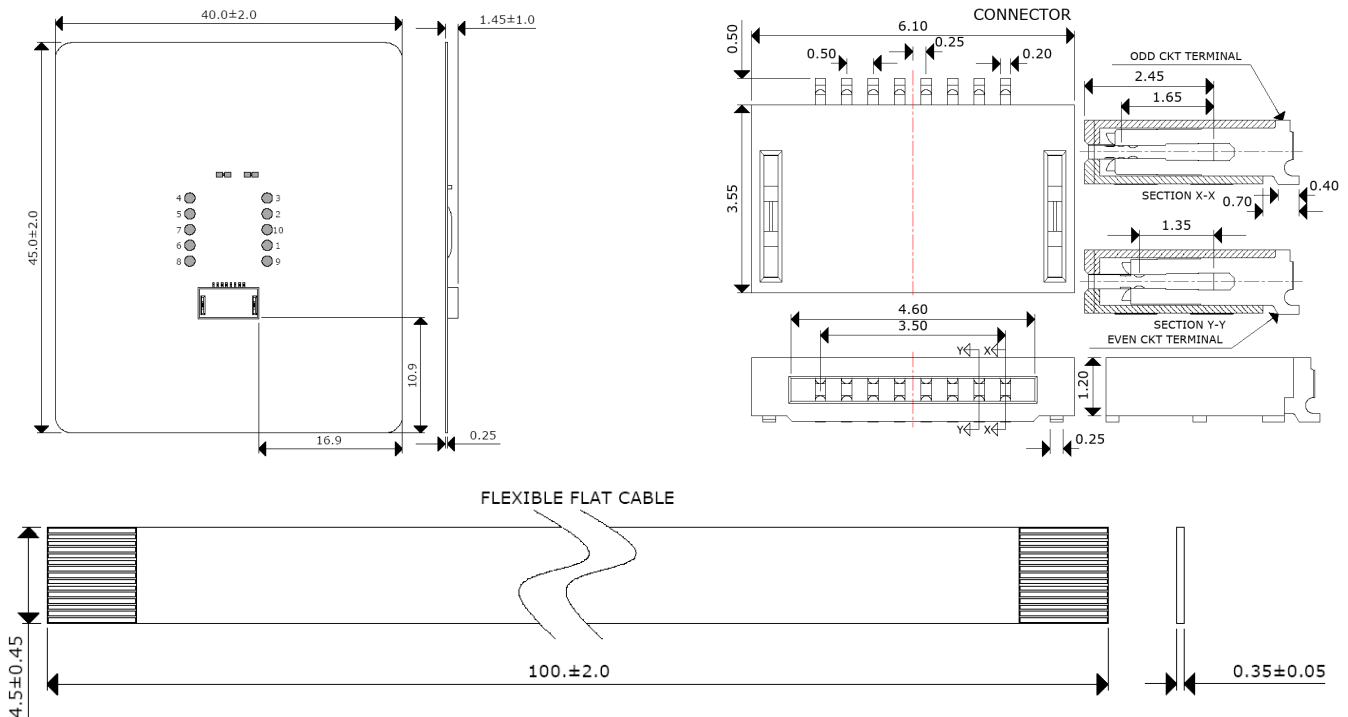


* Where letters denote decimal location (A=0, B=1, C=2, etc.); e.g. B5=0.15, 3A5=3.05, 9A=9.0

Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Band	MHz		14.17		
Impedance	Ω		50		
Q-Factor			60		
Operating Temperature	$^{\circ}\text{C}$	-40		85	

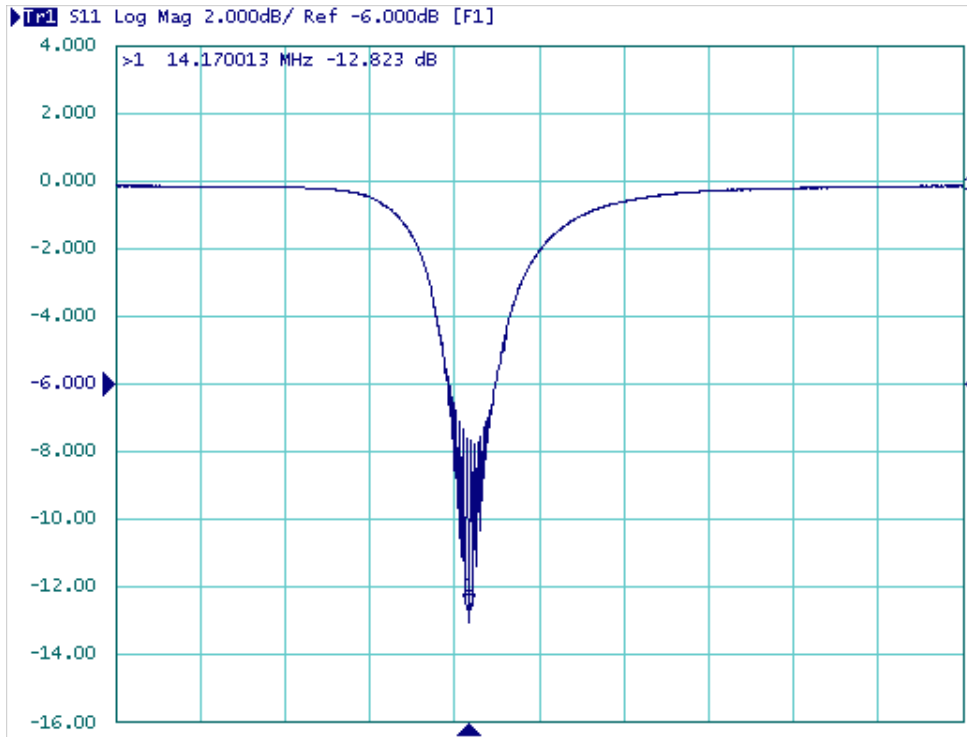
Outline Drawing

All dimensions are in millimeters (mm) unless otherwise noted.
 Drawings are not to scale.

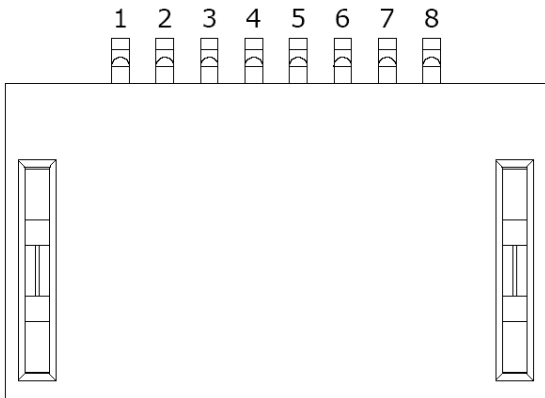


Electrical Test

Return Loss



PIN Assignments



Pin #	Name	Type	Description
1	VSS	Supply Pad	Ground, die substrate potential
2	/SS	Digital Input	Serial Peripheral Interface enable (active low)
3	SCLK	Digital Input	Serial Peripheral Interface clock
4	MOSI	Digital Input	Serial Peripheral Interface data input
5	MISO	Digital Output / Tristate	Serial Peripheral Interface data output
6	IRQ	Digital Output	Interrupt request output (active low)
7	VP_SPI	Supply Pad	Positive supply of SPI interface
8	VP_REG	Analog Output	Regulator output